

FIG.1

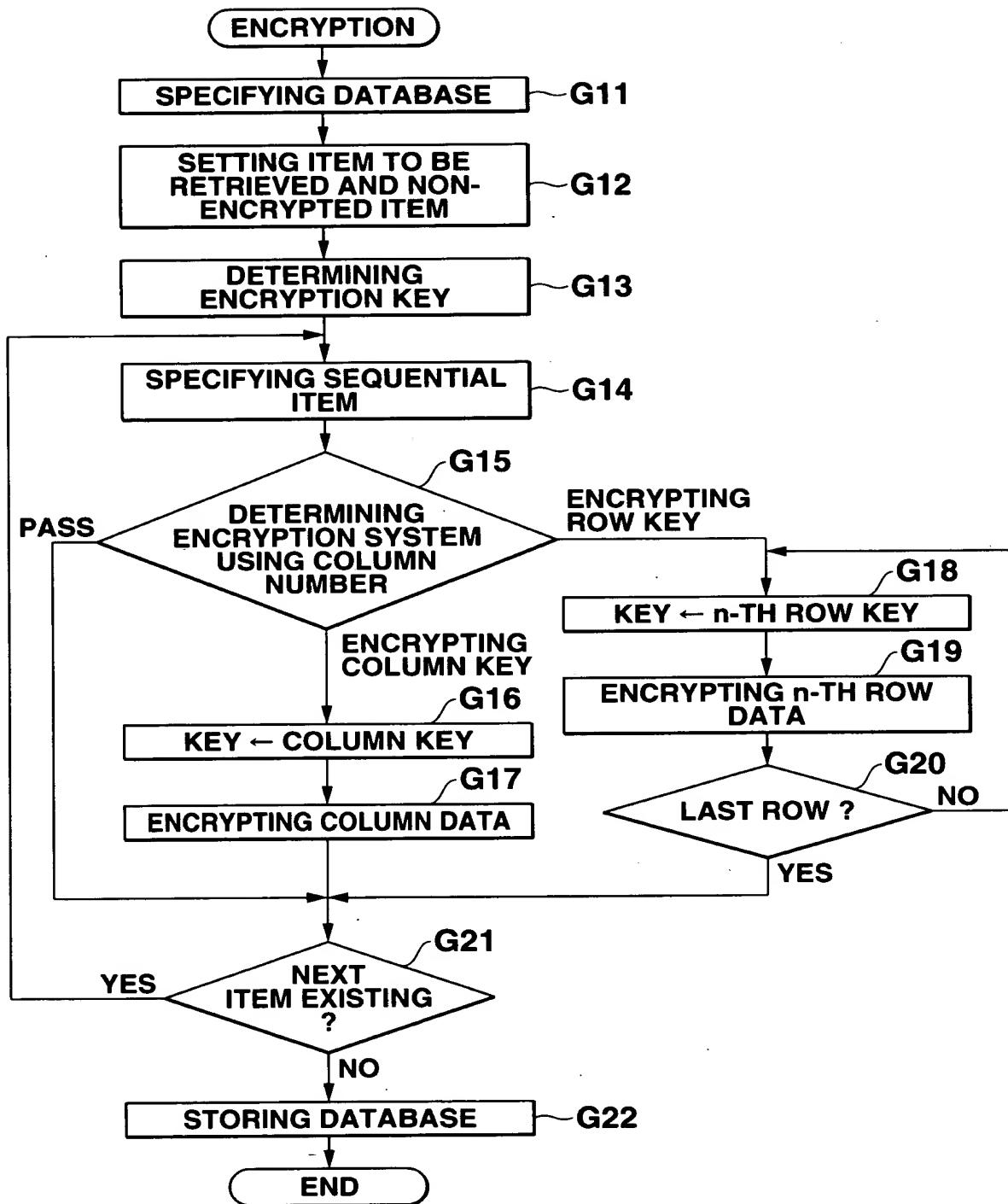


FIG.2

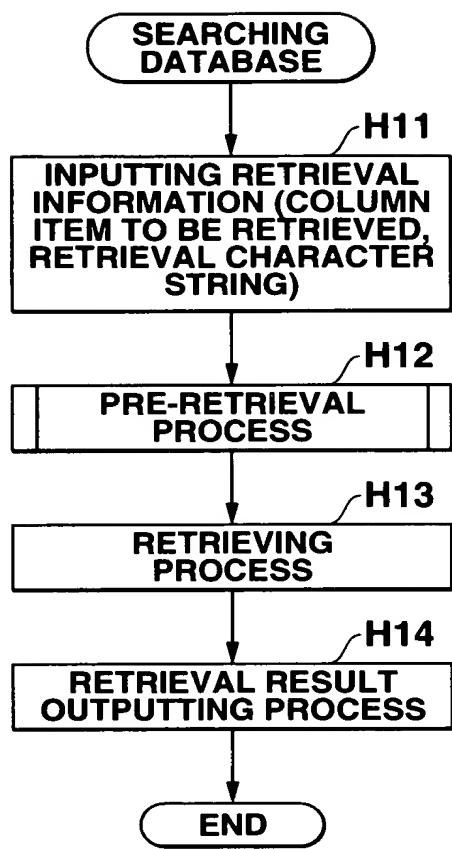


FIG.3A

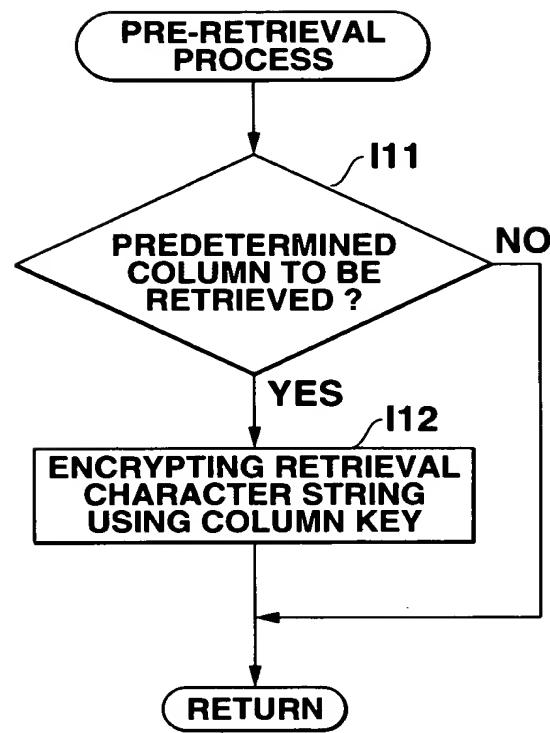


FIG.3B

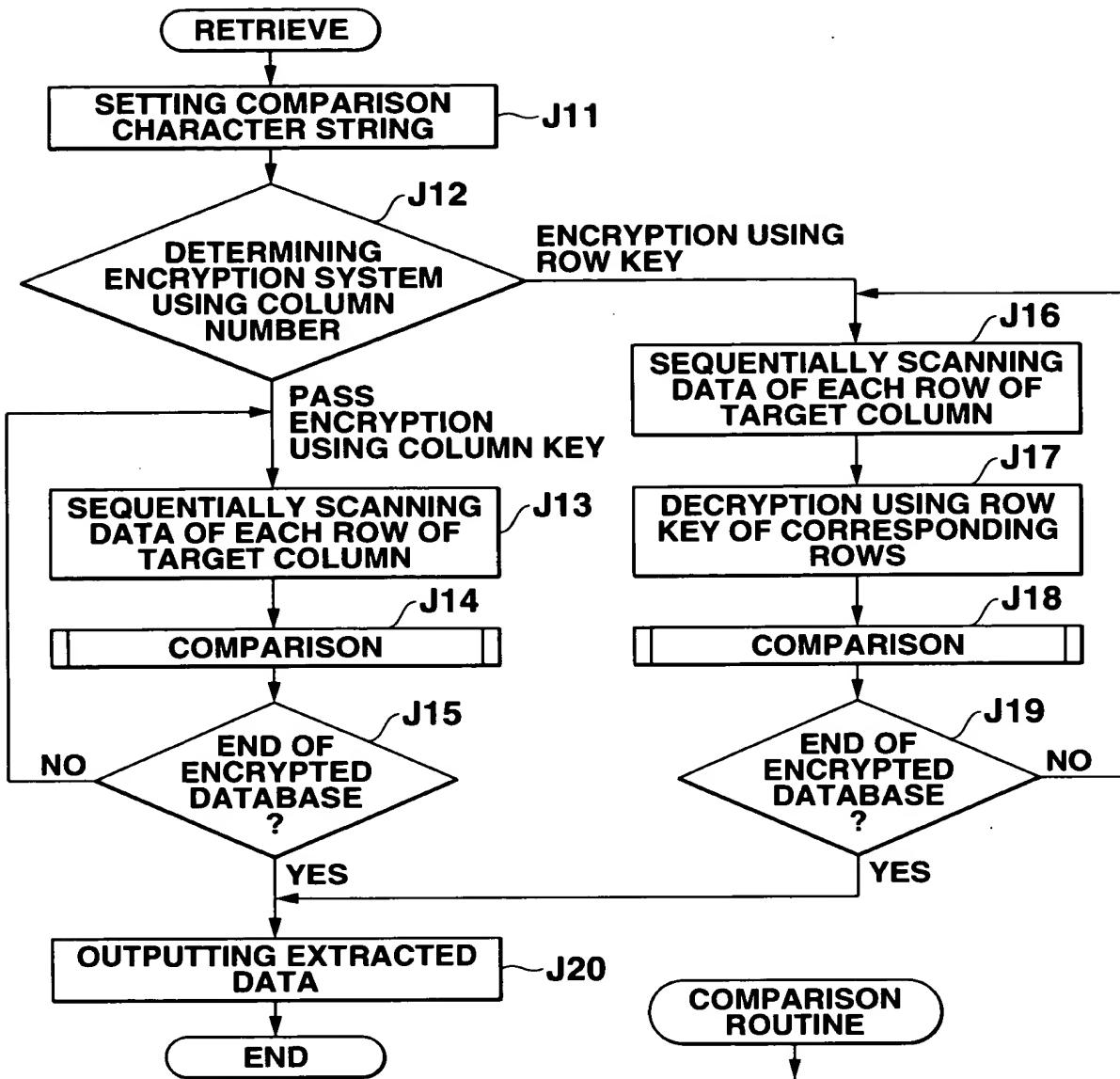


FIG.4A

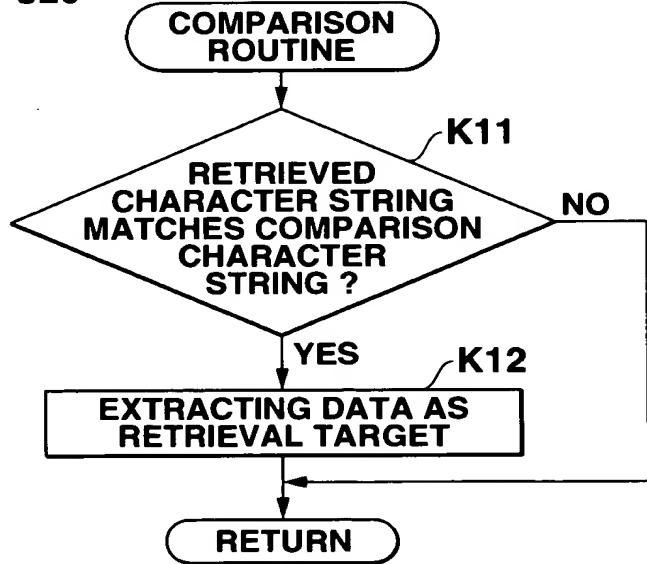


FIG.4B

(a)

number	name	state	weight	height	age	phone
1	Jhon	New York	63	130	22	407-228-6611
2	Chris	Florida	72	190	21	123-456-7890
3	Michael	Minnesota	65	163	27	101-202-3030
4	David	Iowa	63	145	34	523-761-0045
5	Mark	New York	65	152	30	832-962-9001
6	Daniel	Iowa	68	170	25	231-981-9454
7	George	Idaho	69	180	31	561-545-4389
8	Henry	Florida	71	165	22	239-203-9800
9	Joe	New Jersey	66	163	27	239-129-9898

ENCRYPTION

COLUMN KEY
ROW KEY

(b)

number	name	state	weight	height	age	phone
1	wJls	noevjolc	qw	ywe	jh	igdltytfhDSk
2	ddGGa	h*fDD	lr	Erw	hg	LKtYtDSkoKow
3	1jkjl+P	gah{6xpVd	RK	Tyi	tY	hkliiydageQk
4	3eK@s	kHHS	kd	DHH	KI	d+fDIKnBerJf
5	erlN	noevjolc	jD	iOO	Gv	wsdERfvW2Sdf
6	F>sSlu	kHHS	8u	Iki	ij	1xcVlmFmkjpo
7	(:ld?k	IJHFD	HH	ipa	LK	kjwDkJGvfDoa
8	rhJKd	h*fDD	ew	Aii	jh	e419h-ka+qWH
9	ifd	ASoChijlO-	Df	lky	tY	qLFUiCVkj@kl

DECRYPTION

COLUMN KEY
ROW KEY

(c)

number	name	state	weight	height	age	phone
1	Jhon	New York	63	130	22	407-228-6611
2	Chris	Florida	72	190	21	123-456-7890
3	Michael	Minnesota	65	163	27	101-202-3030
4	David	Iowa	63	145	34	523-761-0045
5	Mark	New York	65	152	30	832-962-9001
6	Daniel	Iowa	68	170	25	231-981-9454
7	George	Idaho	69	180	31	561-545-4389
8	Henry	Florida	71	165	22	239-203-9800
9	Joe	New Jersey	66	163	27	239-129-9898

FIG.5

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COLUMN KEY

number	name	state	weight	height	age	phone
NONE	"apple"	"orange"	ROW KEY	ROW KEY	"lemon"	ROW KEY

ROW KEY

number	
1	"tiger"
2	"dog"
3	"cat"
4	"mouse"
5	"elephant"
6	"cow"
7	"pig"
8	"rabbit"
9	"lion"

FIG. 6

(a)

number	name	state	weight	height	age	phone
1	Jhon	New York	63	130	22	407-228-6611
2	Chris	Florida	72	190	21	123-456-7890
3	Michael	Minnesota	65	163	27	101-202-3030
4	David	Iowa	63	145	34	523-761-0045
5	Mark	New York	65	152	30	832-962-9001
6	Daniel	Iowa	68	170	25	231-981-9454
7	George	Idaho	69	180	31	561-545-4389
8	Henry	Florida	71	165	22	239-203-9800
9	Joe	New Jersey	66	163	27	239-129-9898

ENCRYPTION COMPOSITE KEY

(b)

number	name	state	weight	height	age	phone
1	wJls	noevjolc	xo	qwe	jh	dfghaj;lkqlu
2	ddGGa	h*/fDD	wi	kIA	hg	qwTyIBnDFiKj
3	1jkjl+P	gah{6xpVd	hi	IKJ	tY	DafgiqlkimD-
4	3eK@s	kHHS	s?	SGA	KI	hi*khaTygfXd
5	erIN	noevjolc	d-	ASD	Gv	8uyDBmAkolka
6	f>sSlu	kHHS	l*	qoK	ij	jhtvbnMKJASW
7	(:ld?k	IJHFD	df	sLL	LK	IQwSRyuiokjq
8	rhJKd	h*/fDD	Ws	tyH	of	Dfha*kaqil
9	ifd	ASoChijIO-	qo	H2a	Ga	IkjHYAGoiuq

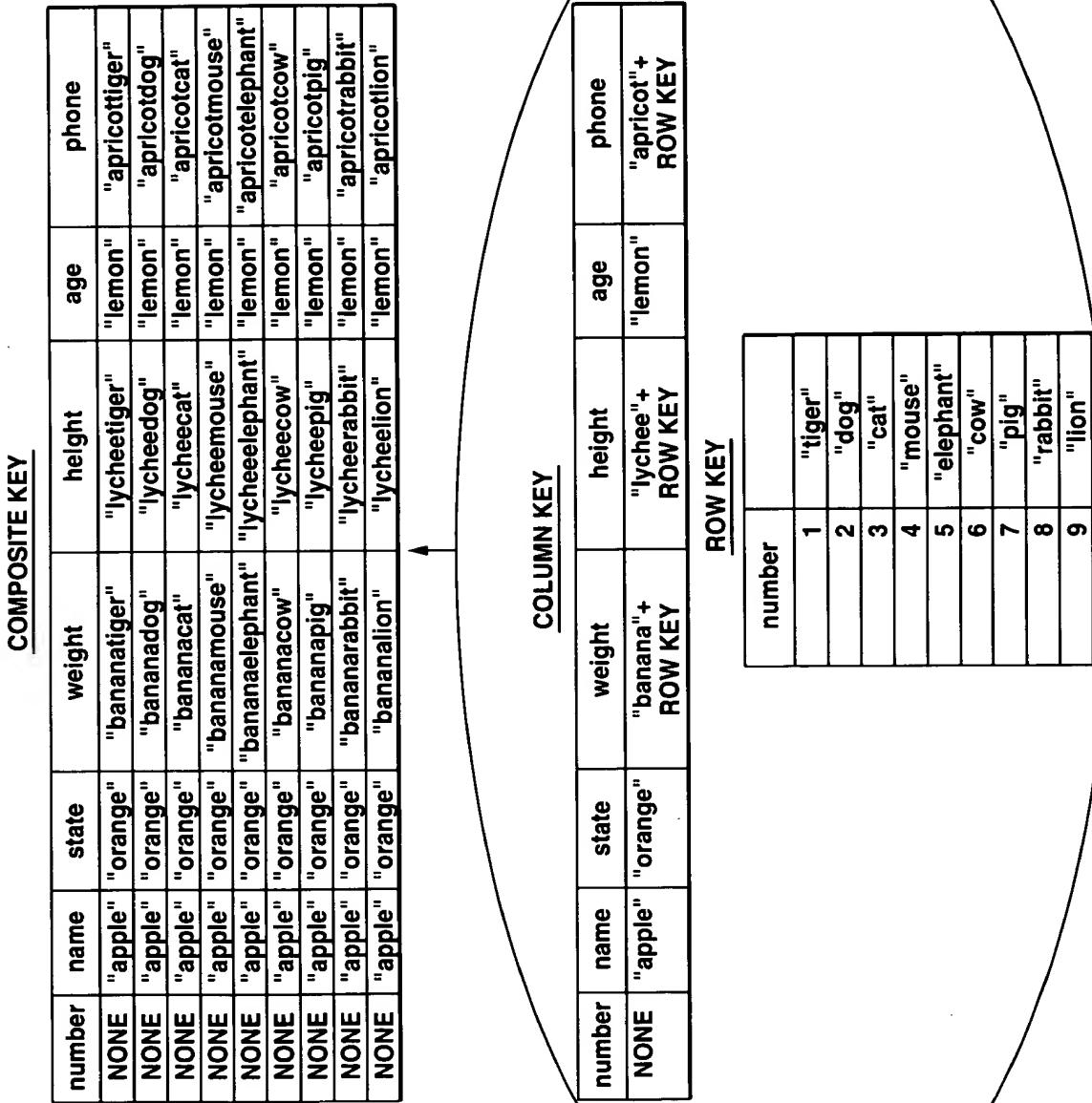
DECRYPTION COMPOSITE KEY

(c)

number	name	state	weight	height	age	phone
1	Jhon	New York	63	130	22	407-228-6611
2	Chris	Florida	72	190	21	123-456-7890
3	Michael	Minnesota	65	163	27	101-202-3030
4	David	Iowa	63	145	34	523-761-0045
5	Mark	New York	65	152	30	832-962-9001
6	Daniel	Iowa	68	170	25	231-981-9454
7	George	Idaho	69	180	31	561-545-4389
8	Henry	Florida	71	165	22	239-203-9800
9	Joe	New Jersey	66	163	27	239-129-9898

FIG.7

FIG.8



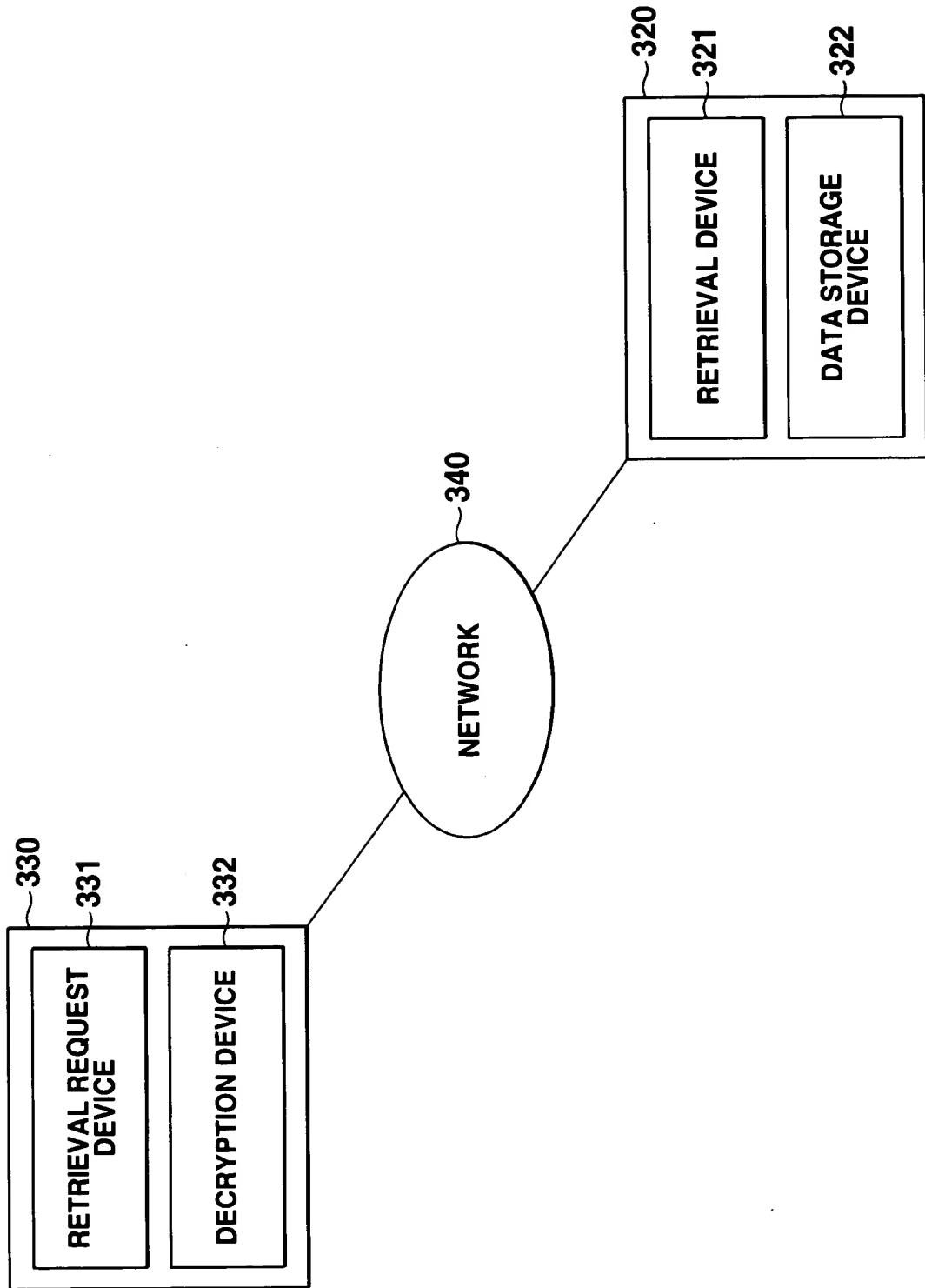


FIG.9

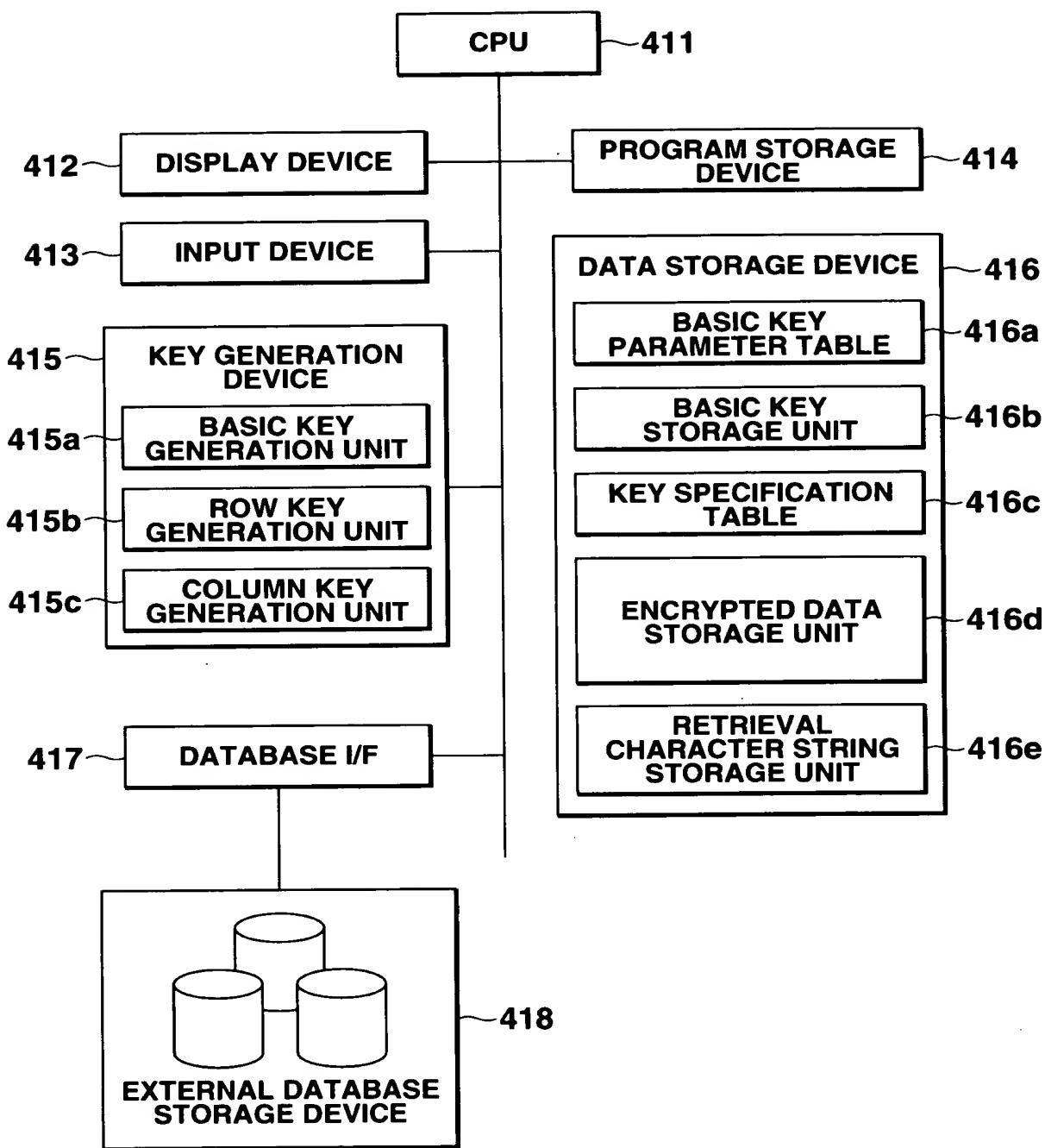
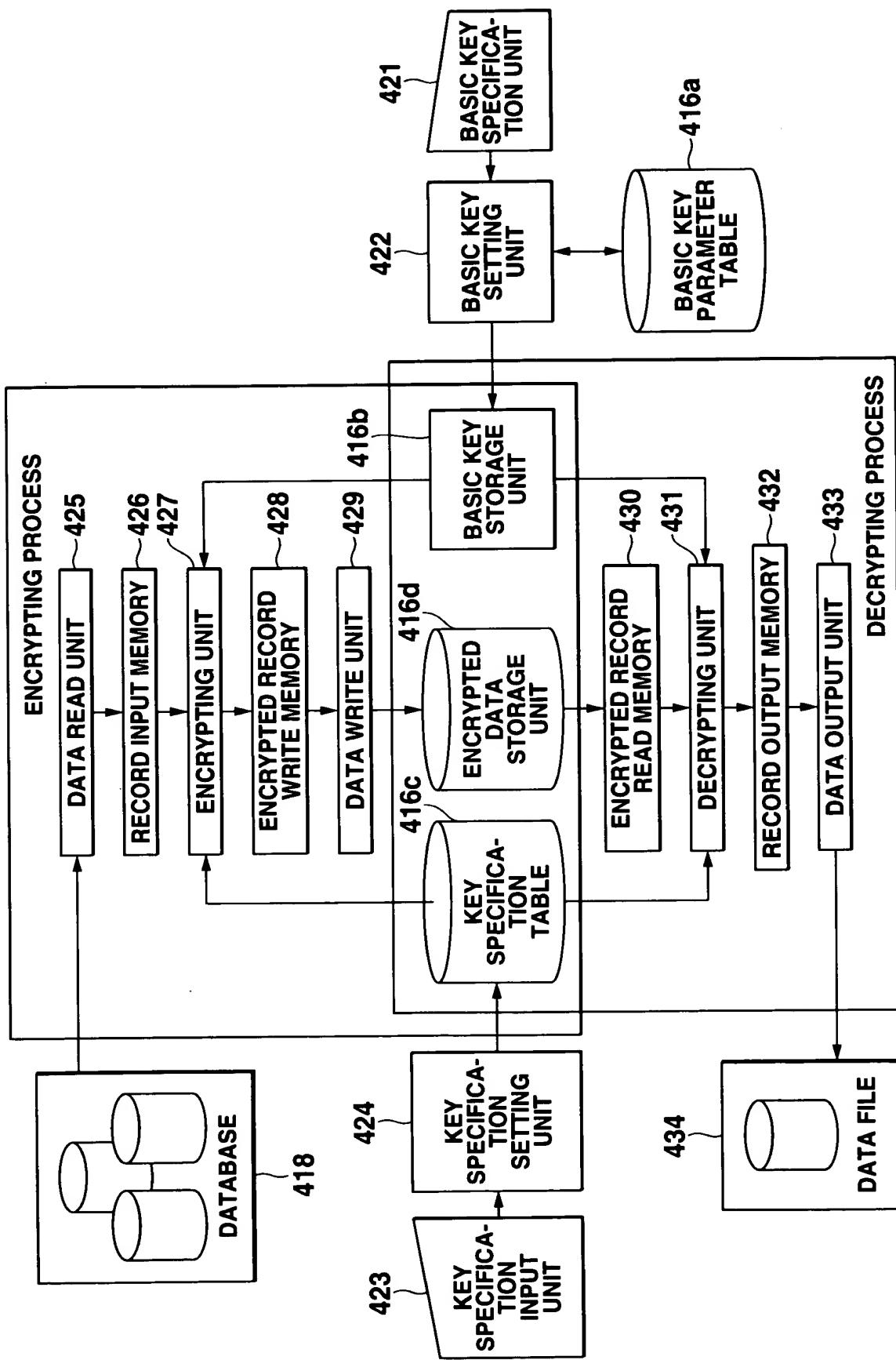


FIG.10

FIG. 11



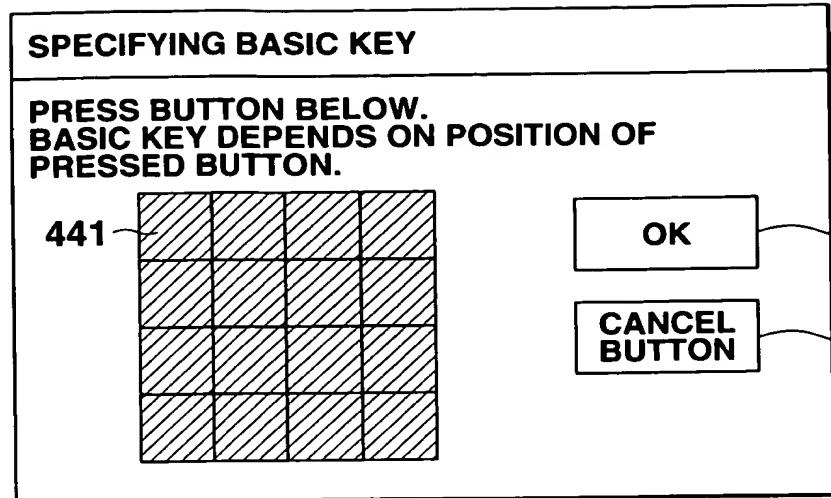


FIG.12

BASIC KEY PARAMETER TABLE

POSITION OF BUTTON	BASIC PARAMETER VALUE
1	5
2	7
3	9
4	11
5	13
6	15
7	17
8	19
9	21
10	23
11	25
12	27
13	29
14	31
15	33
16	35

~416a

FIG.13

SPECIFYING KEY SPECIFICATION

SPECIFY ENCRYPTION SYSTEM IN EACH COLUMN ITEM.
0:NON-ENCRYPTION 1:ROW KEY 2:COLUMN KEY

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COLUMN NUMBER	ENCRYPTED KEY
1	0
2	ROW KEY
3	COLUMN KEY
4	COLUMN KEY
5	ROW KEY
⋮	⋮
n	

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OK

453

CANCEL BUTTON

FIG.14

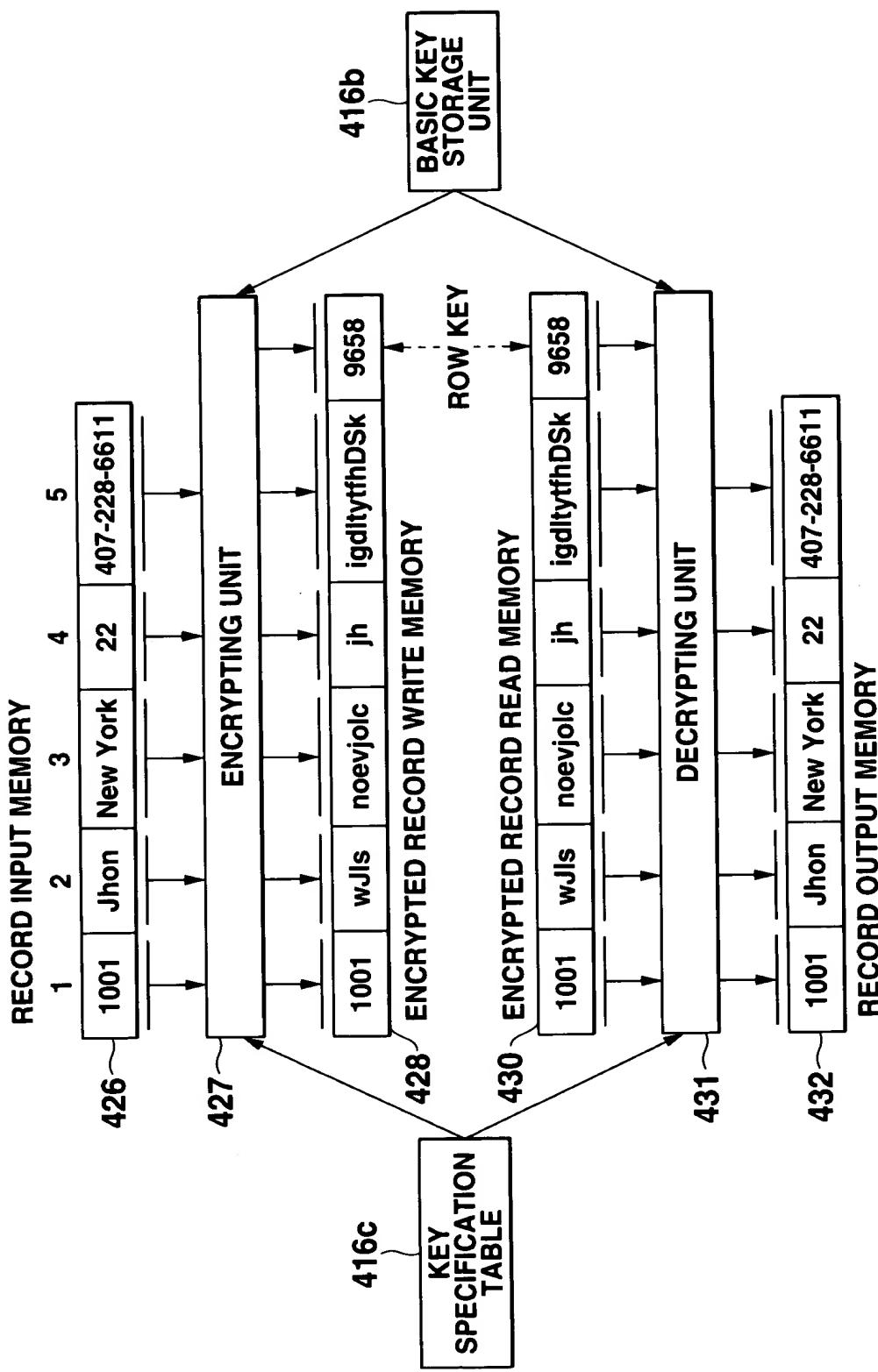
KEY SPECIFICATION TABLE

COLUMN NAME	COLUMN NUMBER	ENCRYPTED KEY
(code)	1	0
(name)	2	ROW KEY
(state)	3	COLUMN KEY
(age)	4	COLUMN KEY
(phone)	5	ROW KEY

416c

FIG.15

FIG.16



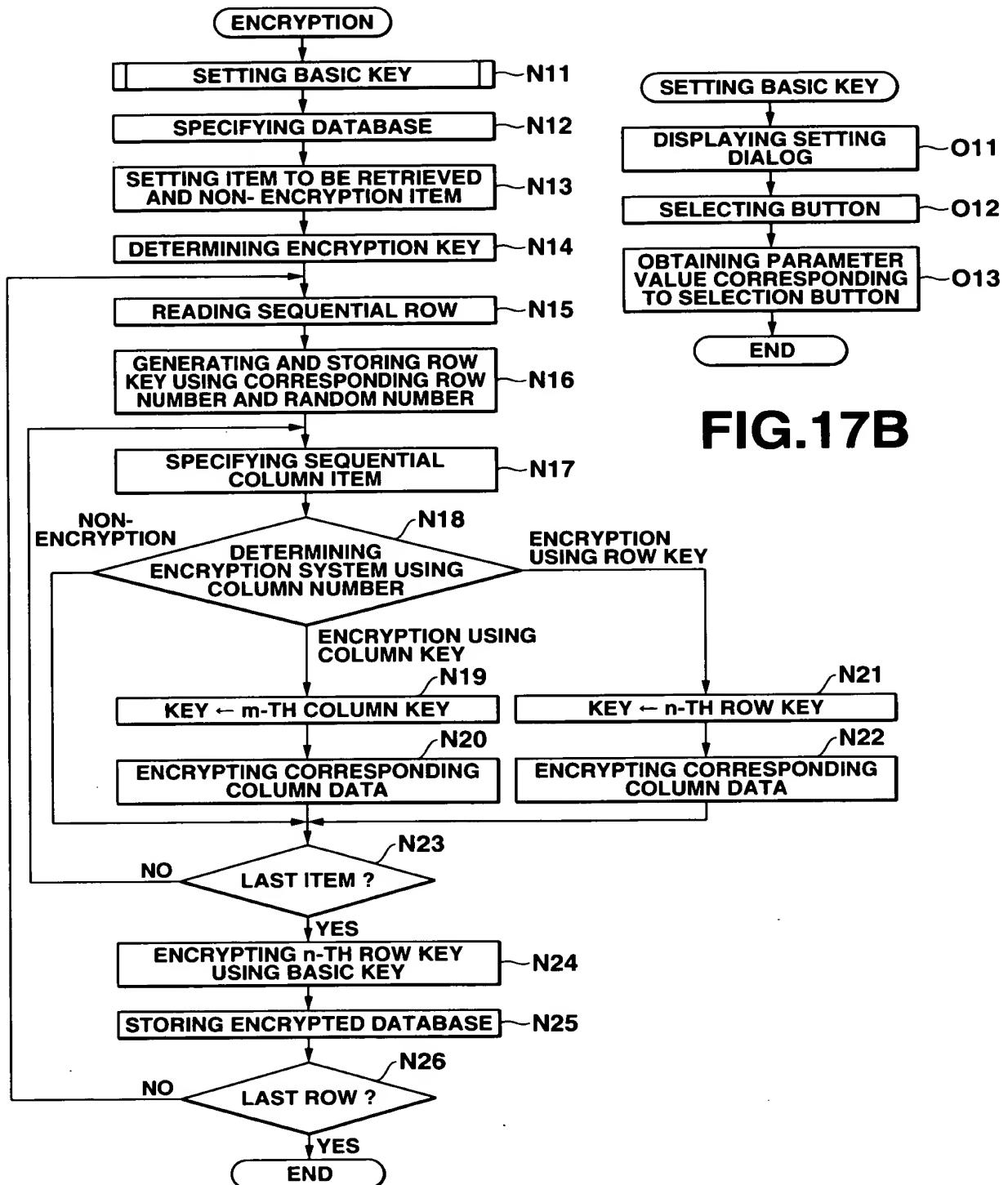


FIG.17B

FIG.17A

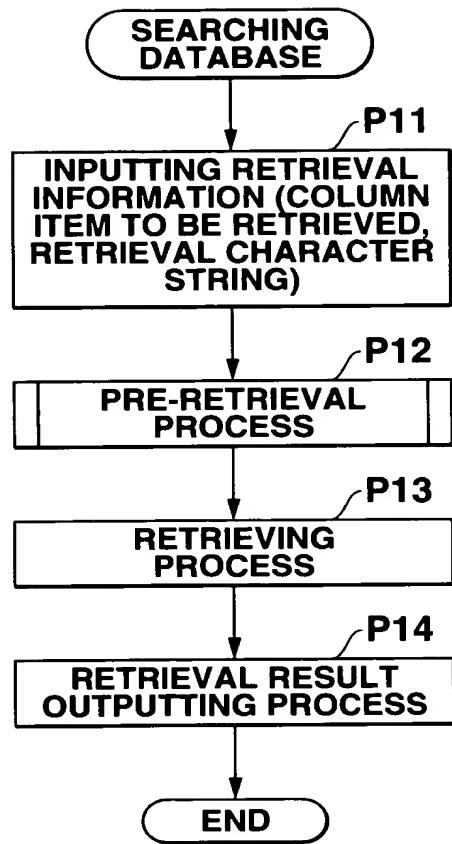


FIG.18A

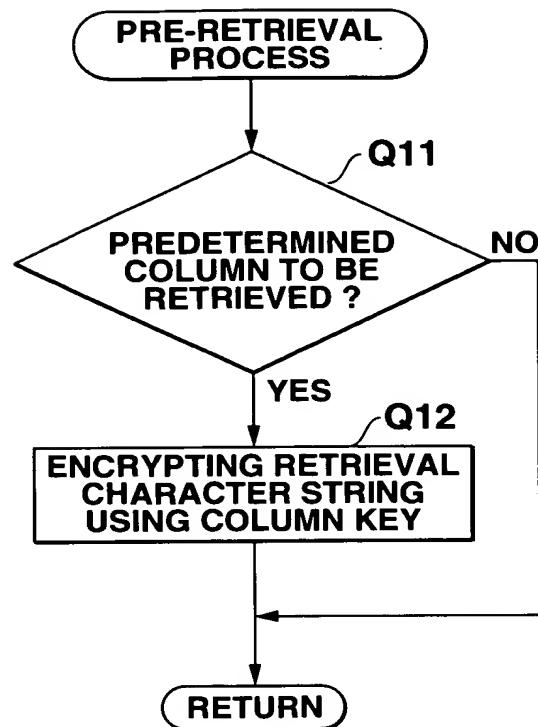


FIG.18B

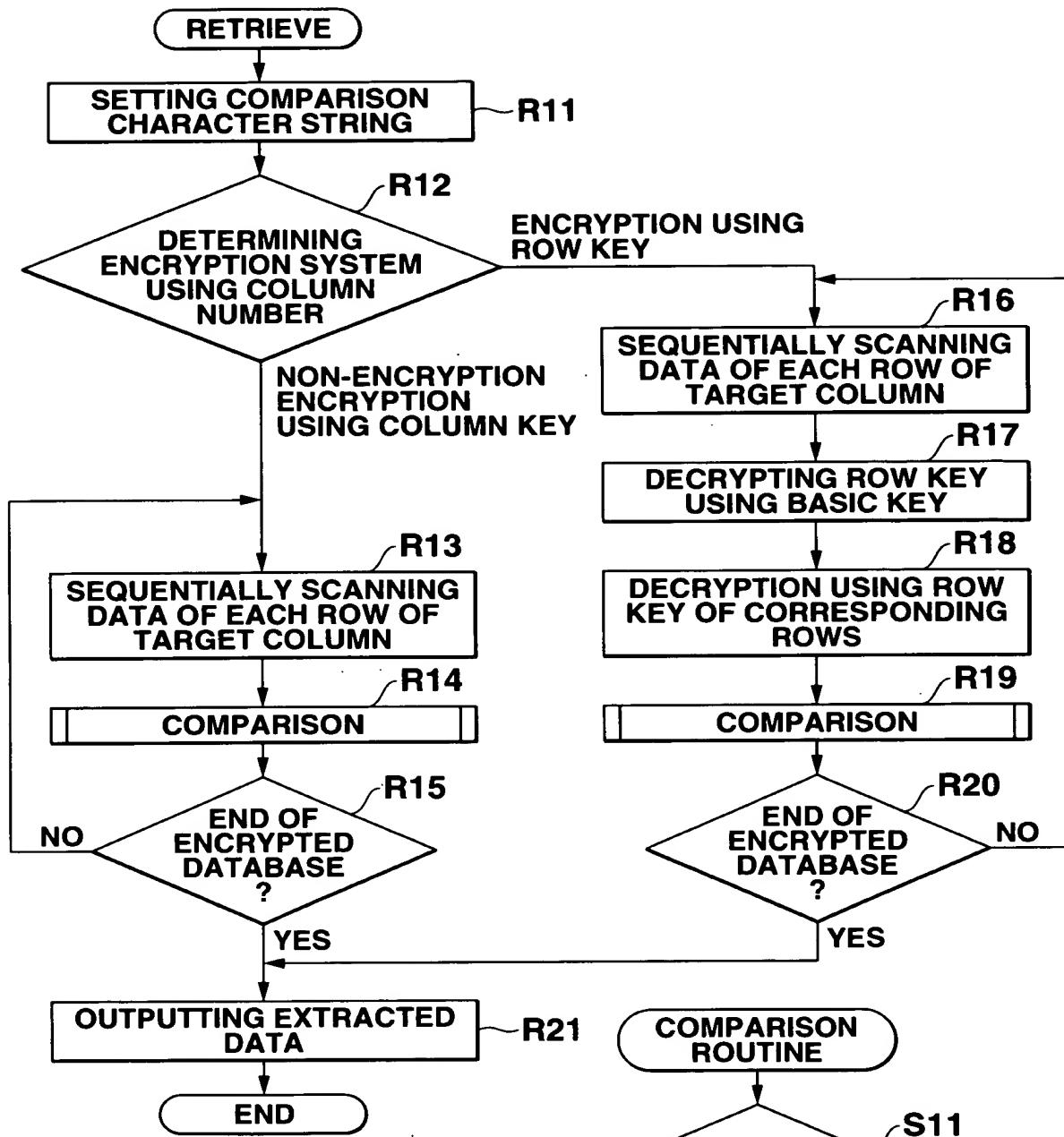


FIG.19A

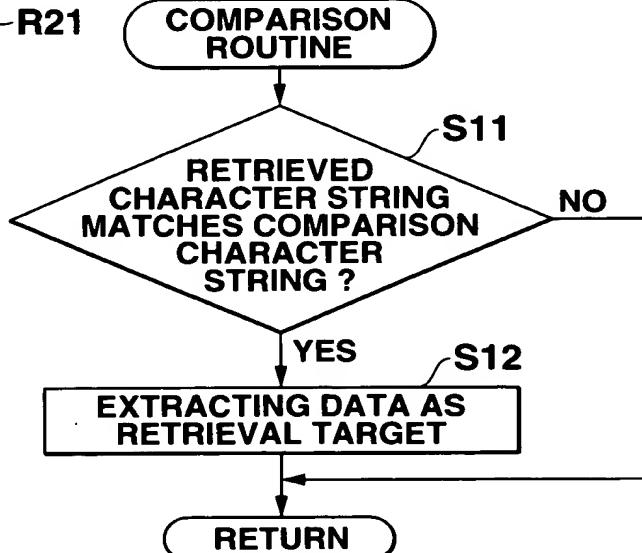


FIG.19B

(a)

number	name	state	age	phone
1001	Jhon	New York	22	407-228-6611
1002	Chris	Florida	21	123-456-7890
1003	Michael	Minnesota	27	101-202-3030
1004	David	Iowa	34	523-761-0045
1005	Mark	New York	30	832-962-9001
1006	Daniel	Iowa	25	231-981-9454
1007	George	Idaho	31	561-545-4389
1008	Henry	Florida	22	239-203-9800
1009	Joe	New Jersey	27	239-129-9898

ENCRYPTION | COLUMN KEY
ROW KEY

(b)

number	name	state	age	phone	line key
1001	wJls	noevjolc	jh	igdItytfhDSk	9658
1002	ddGGa	h*/fDD	hg	LKtYtDSkoKow	9143
1003	1jkl+P	gah{6xpVd	tY	hklIiydageQk	8278
1004	3eK@s	kHHS	Kl	d+fDIKnBerJf	4358
1005	erlN	noevjolc	Gv	wsdERfvW2Sdf	5784
1006	f>sSlu	kHHS	ij	1xcVImFmkjpo	9743
1007	(:ld?k	IJHFD	LK	kjwDkJGvfDoa	3935
1008	rhJKd	h*/fDD	jh	e419h-ka+qwH	7412
1009	ifd	ASoChijIO-	tY	qLFUiCVkj@kl	9593

DECRYPTION | COLUMN KEY
ROW KEY

(c)

number	name	state	age	phone
1001	Jhon	New York	22	407-228-6611
1002	Chris	Florida	21	123-456-7890
1003	Michael	Minnesota	27	101-202-3030
1004	David	Iowa	34	523-761-0045
1005	Mark	New York	30	832-962-9001
1006	Daniel	Iowa	25	231-981-9454
1007	George	Idaho	31	561-545-4389
1008	Henry	Florida	22	239-203-9800
1009	Joe	New Jersey	27	239-129-9898

FIG.20

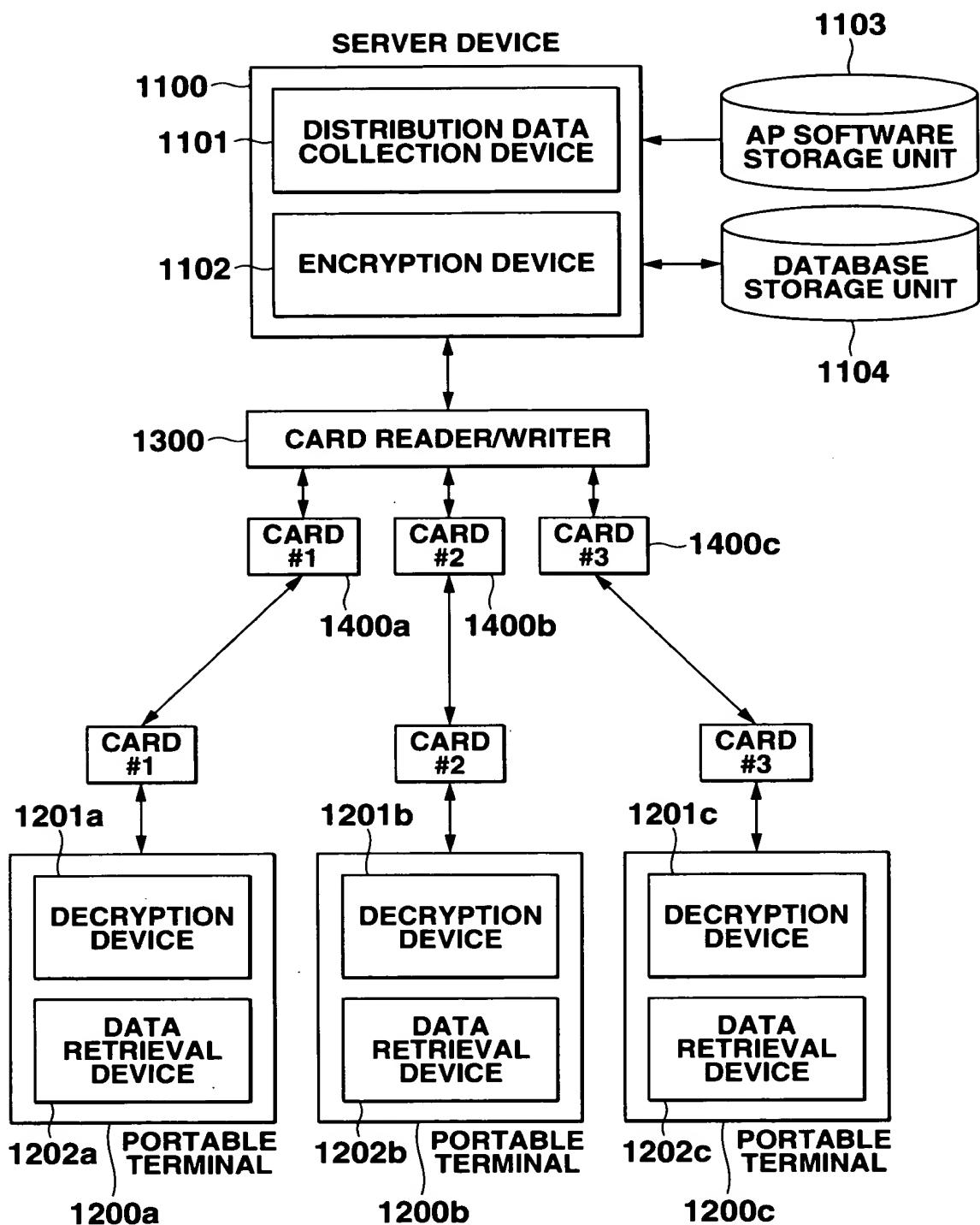


FIG.21

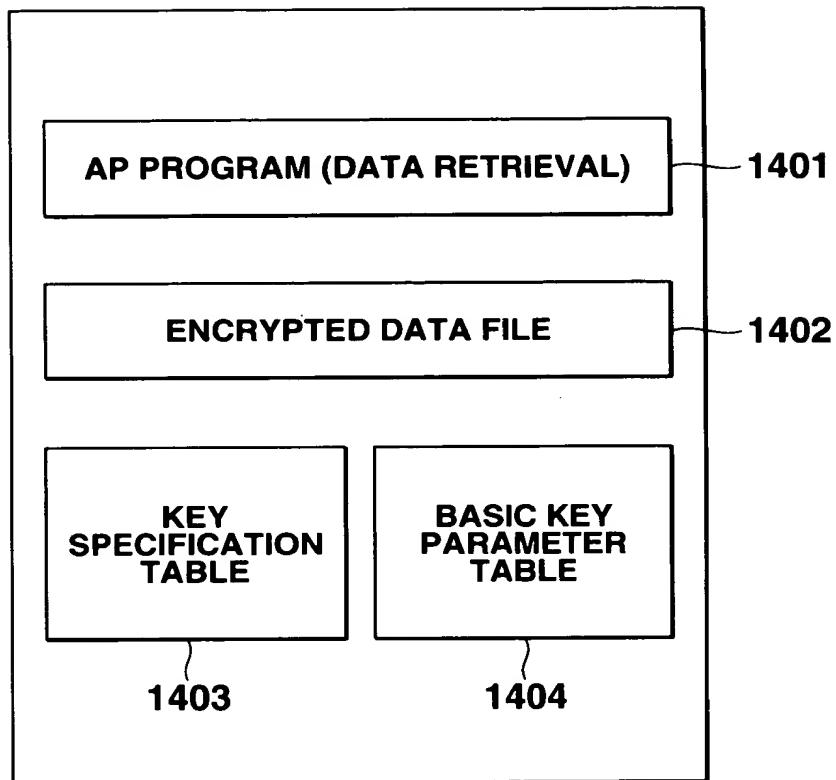


FIG.22

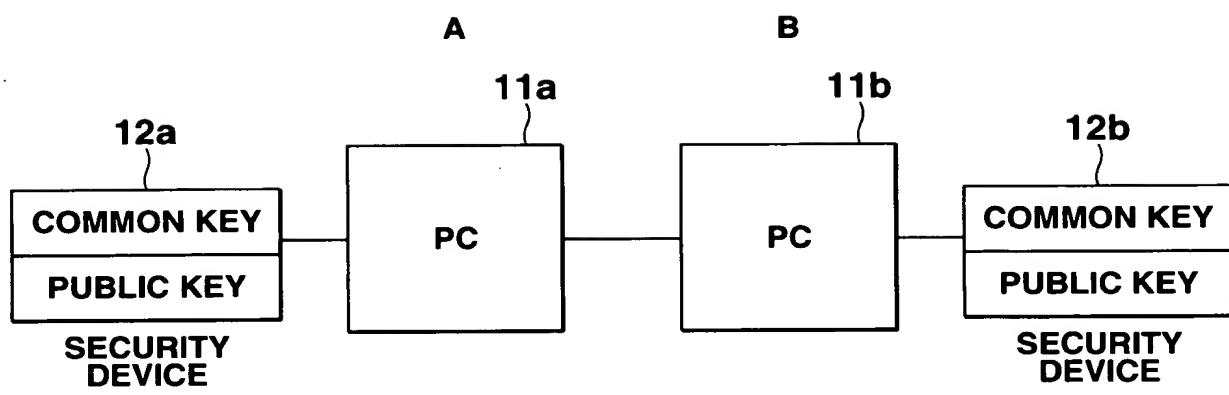


FIG.23

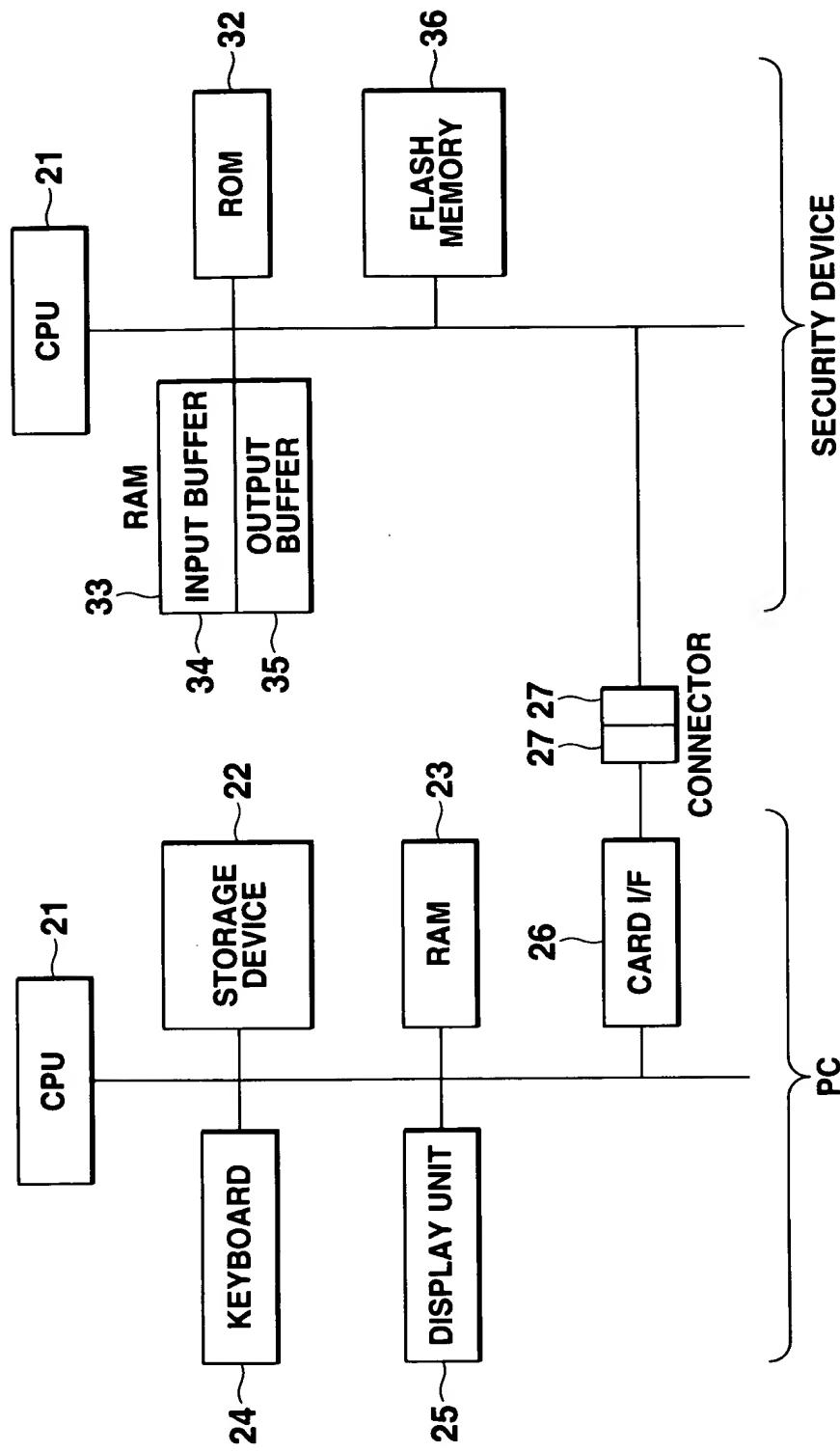


FIG.24

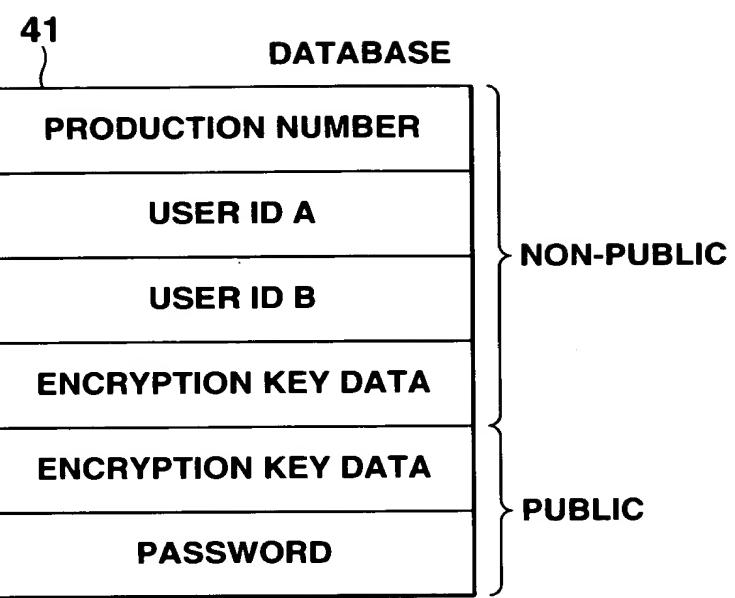


FIG.25

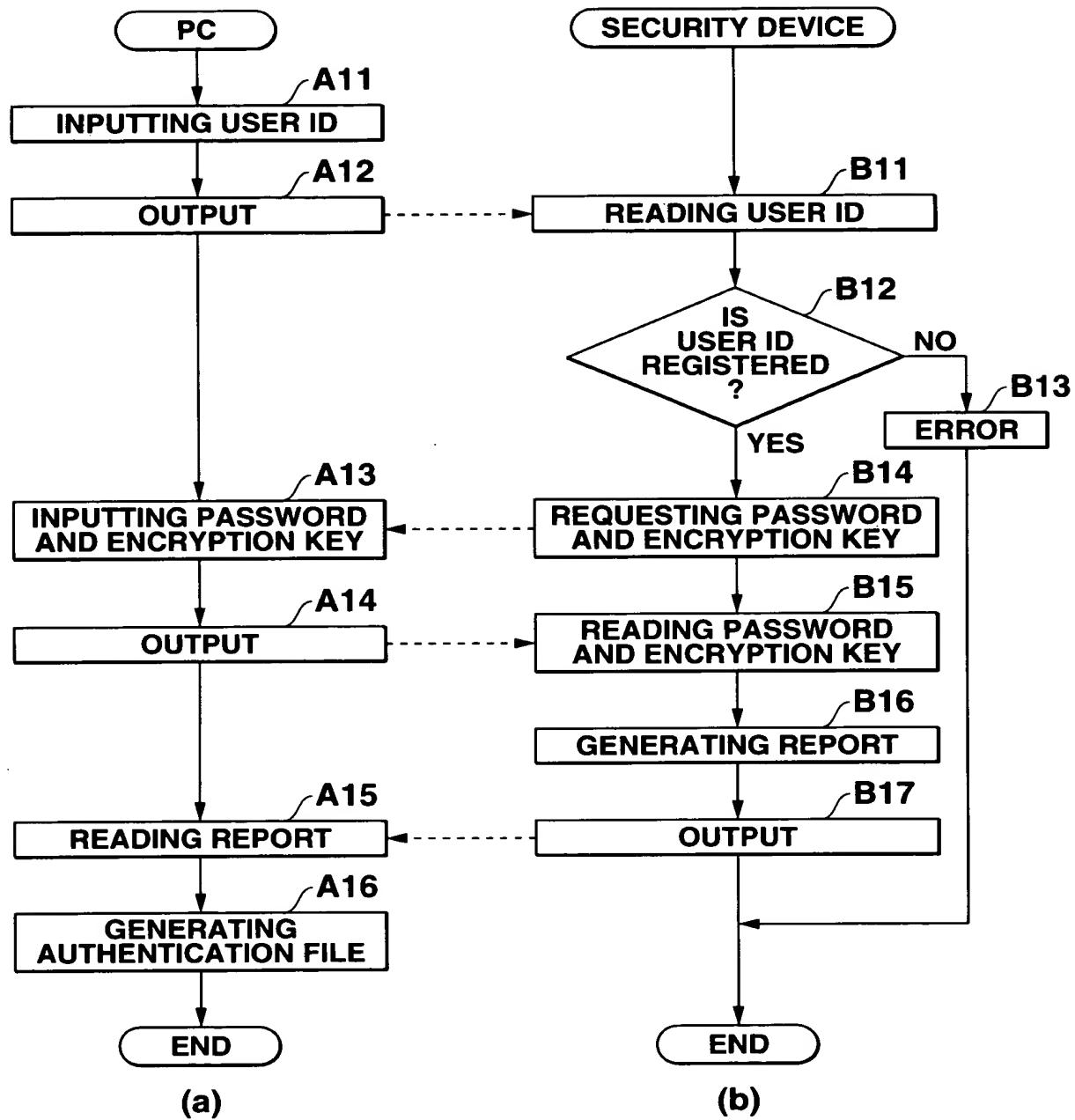


FIG.26

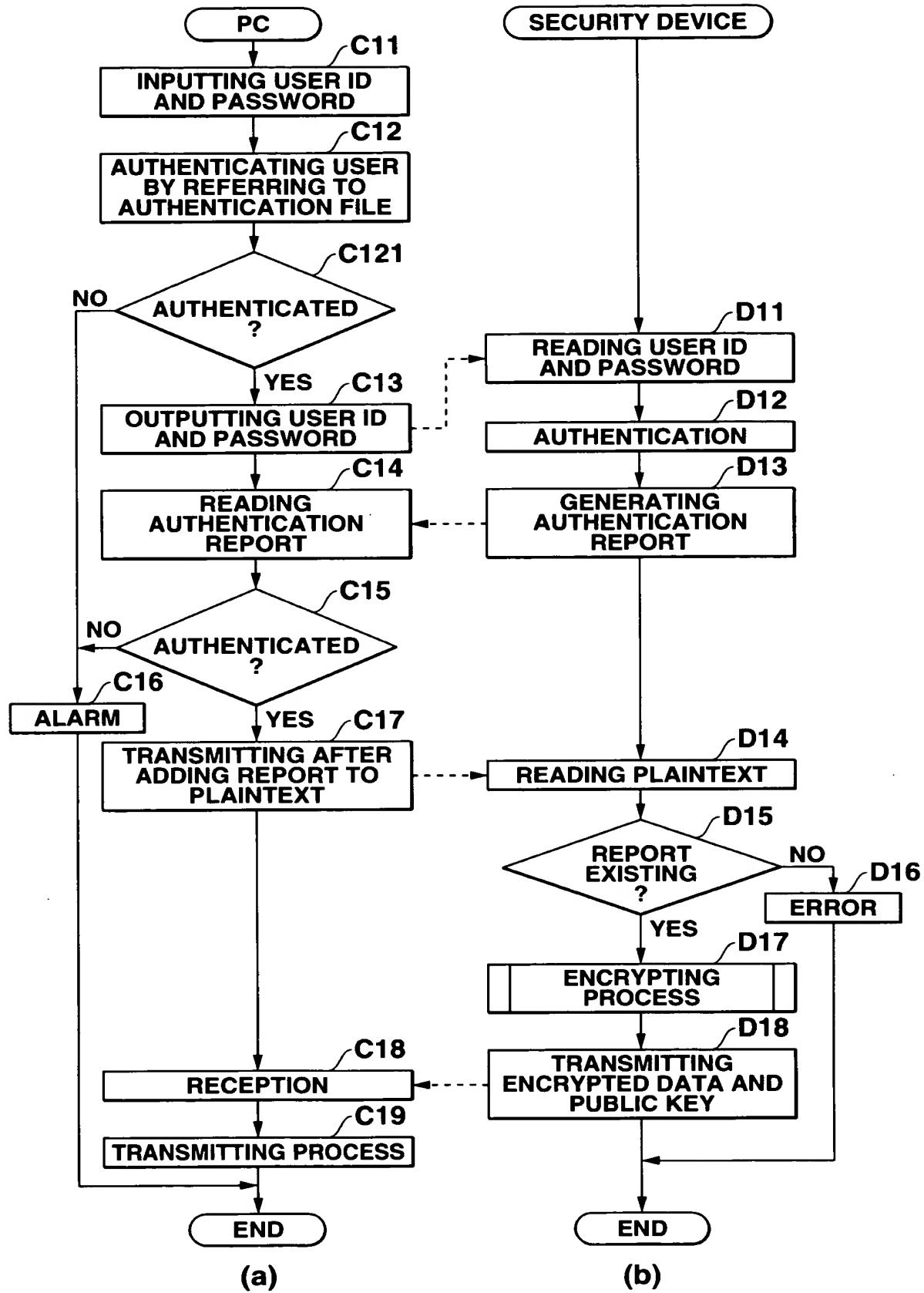


FIG.27

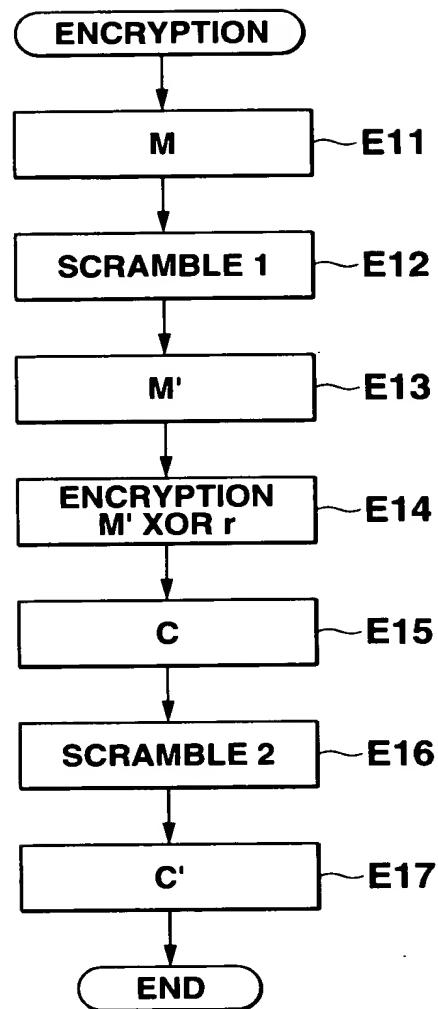


FIG.28A

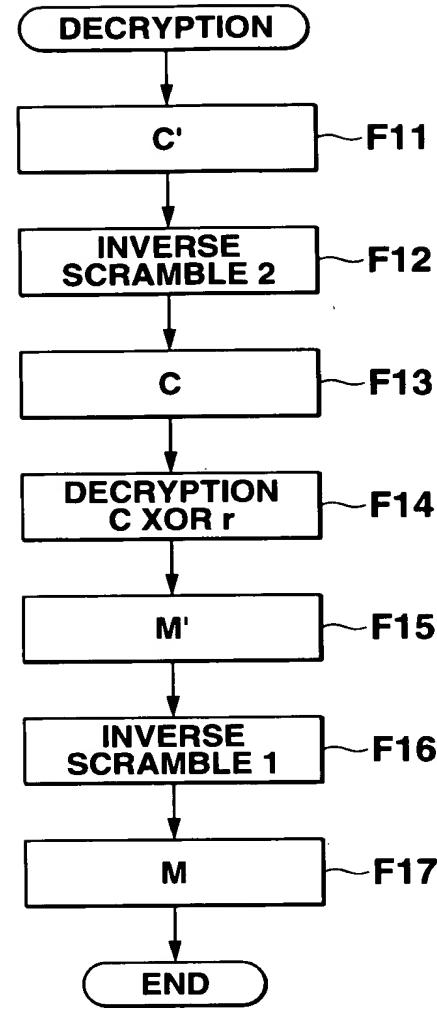
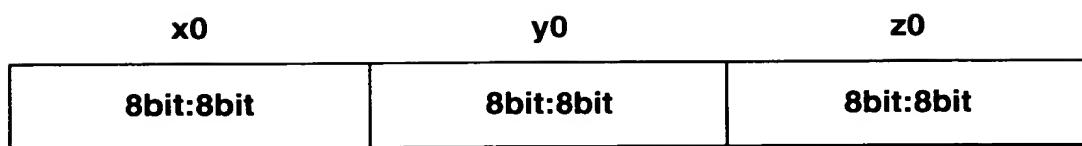


FIG.28B



XOR

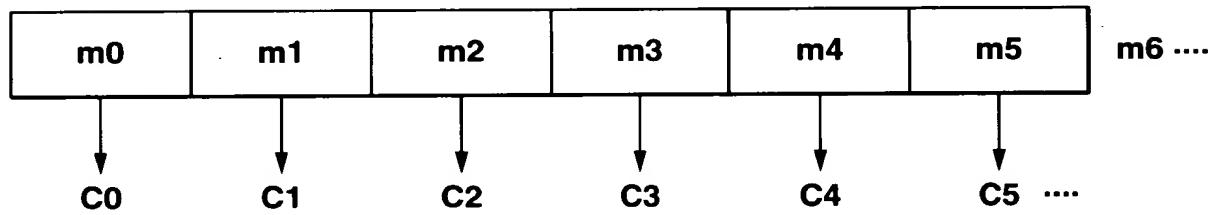


FIG.29

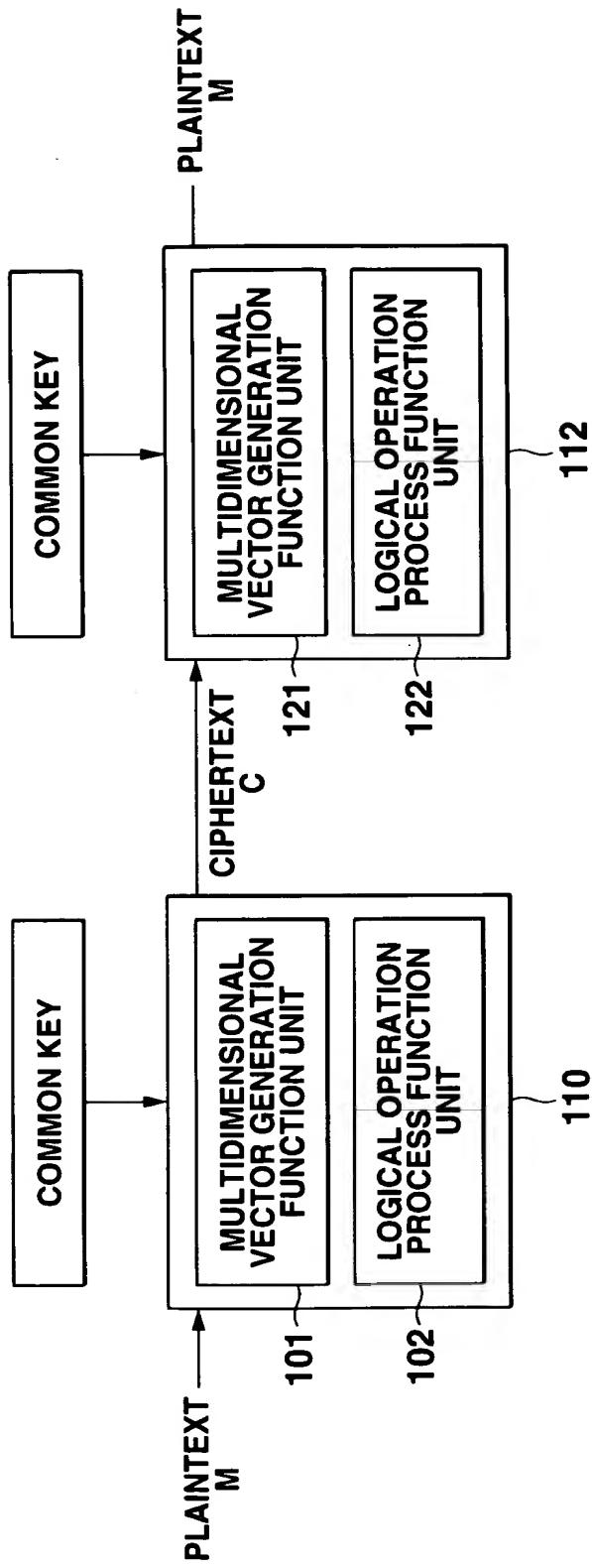


FIG.30

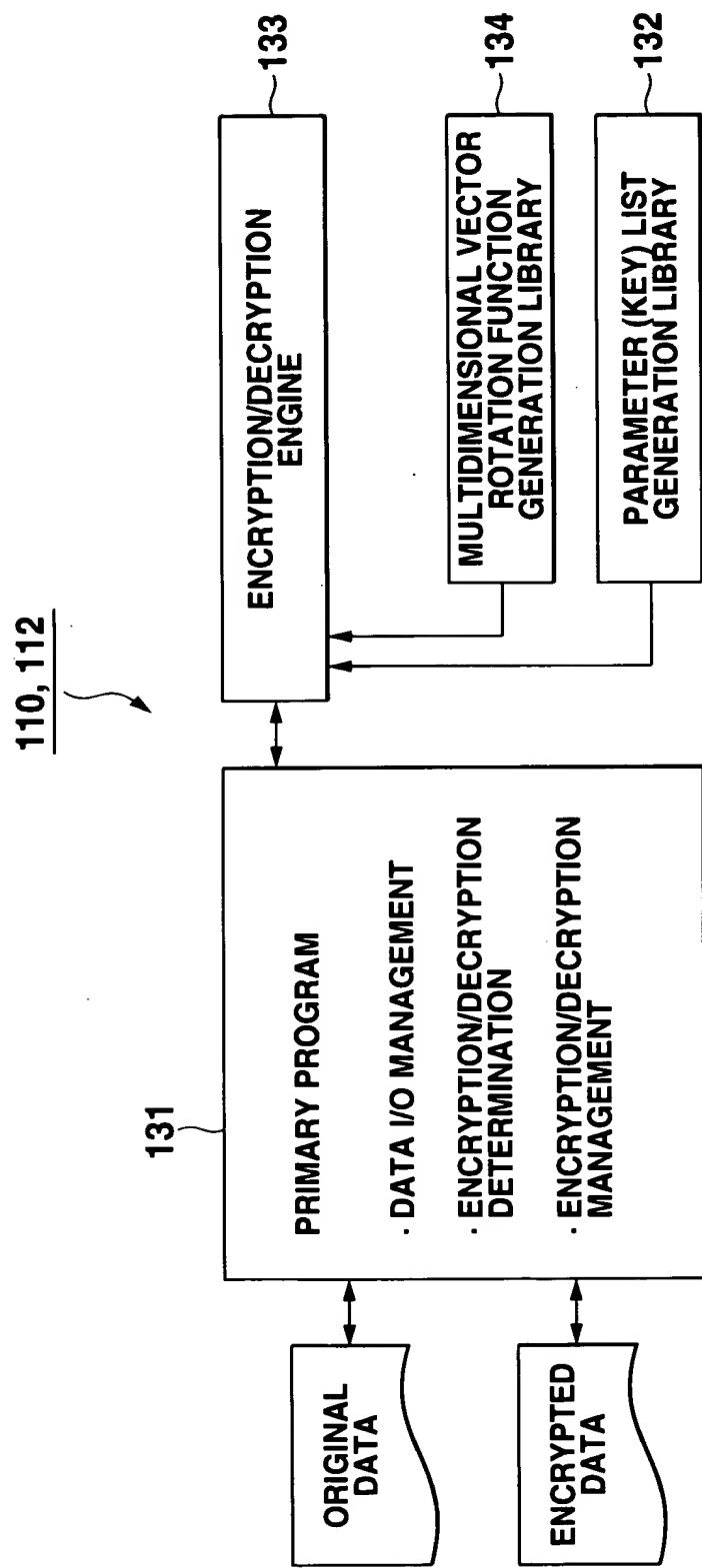


FIG.31

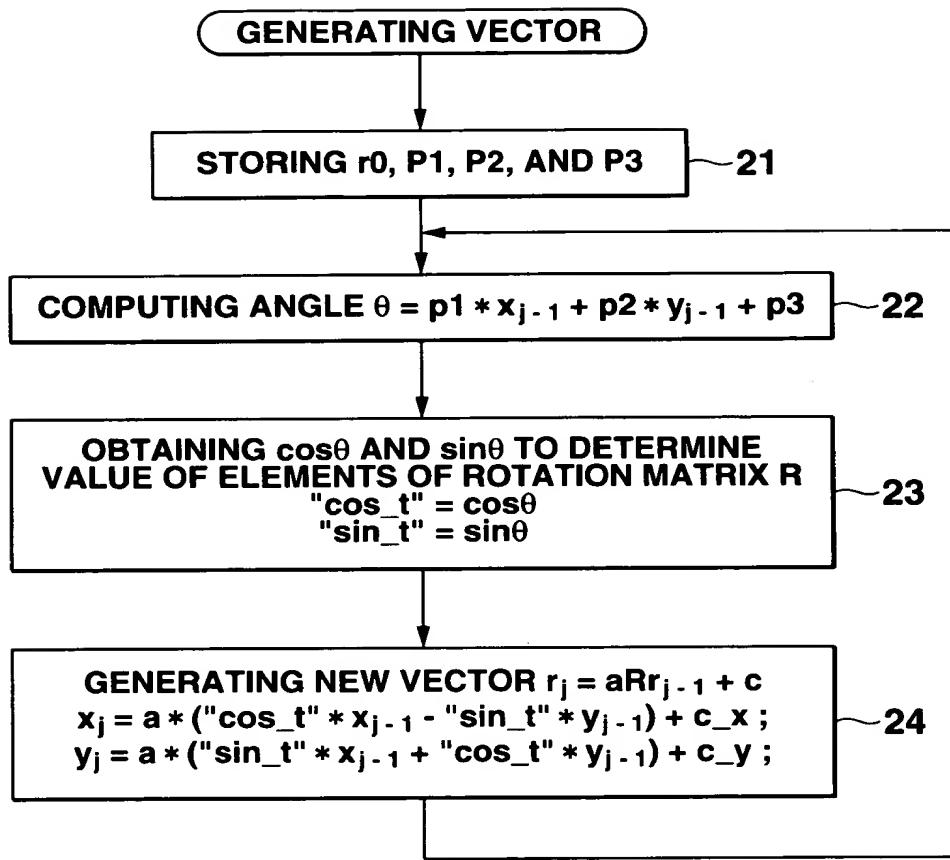


FIG.32

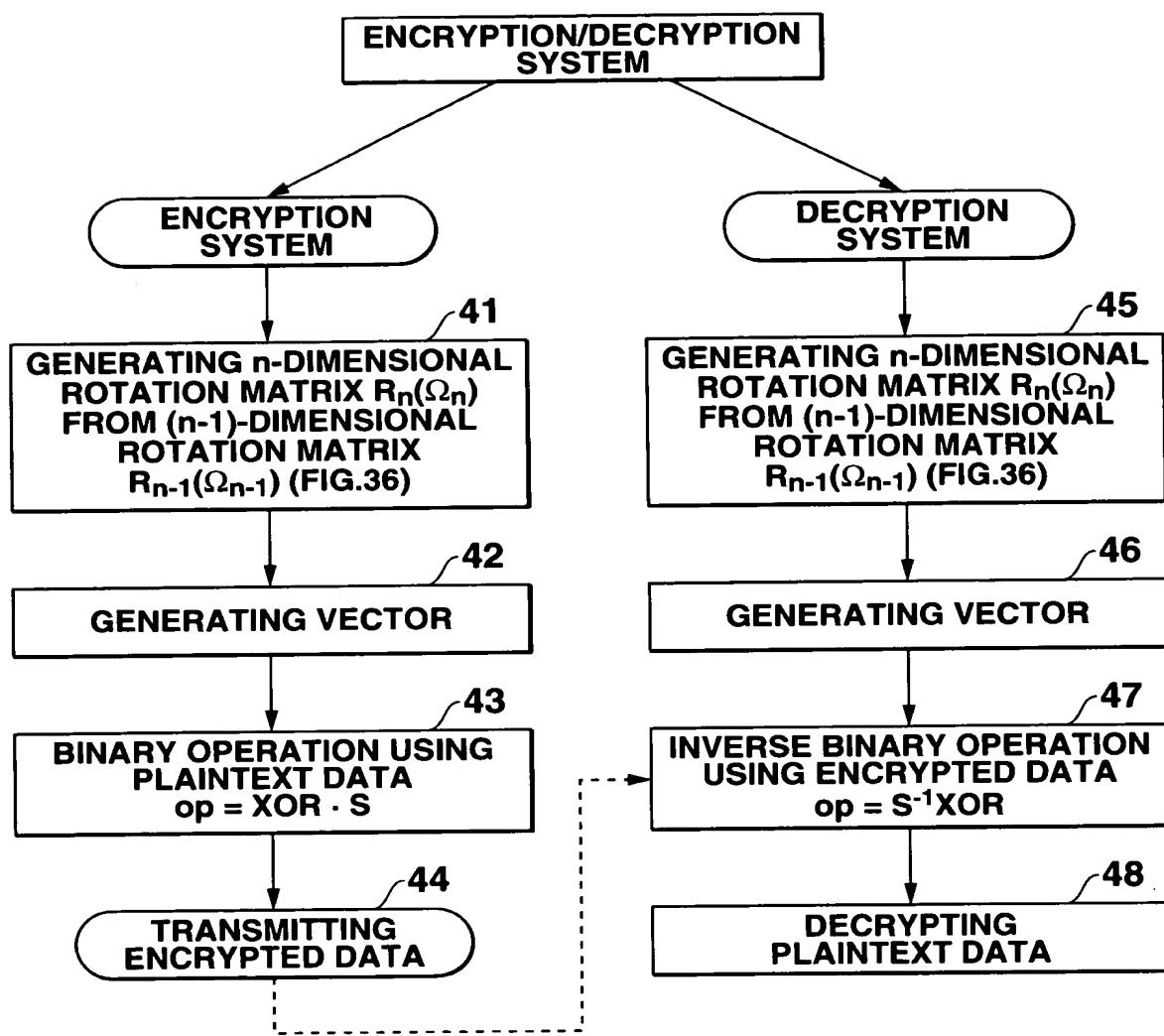


FIG.33

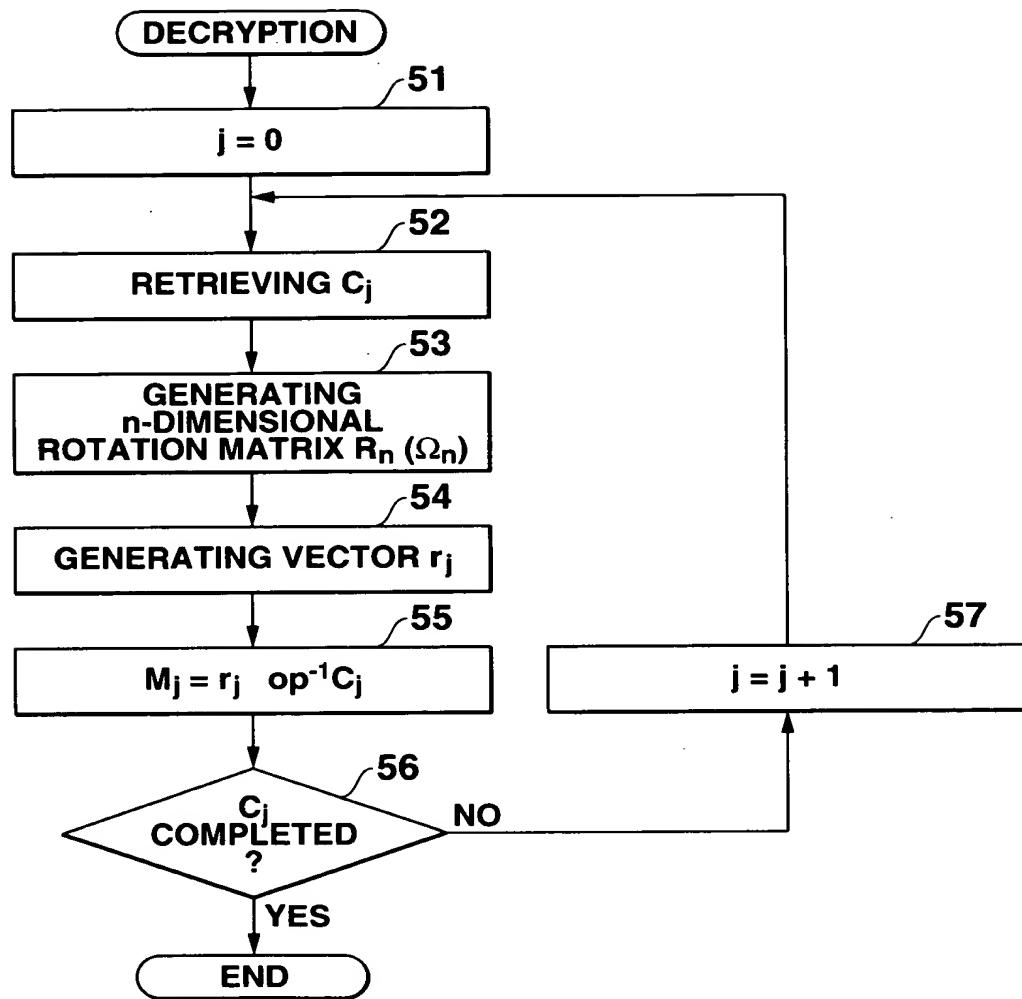


FIG.34

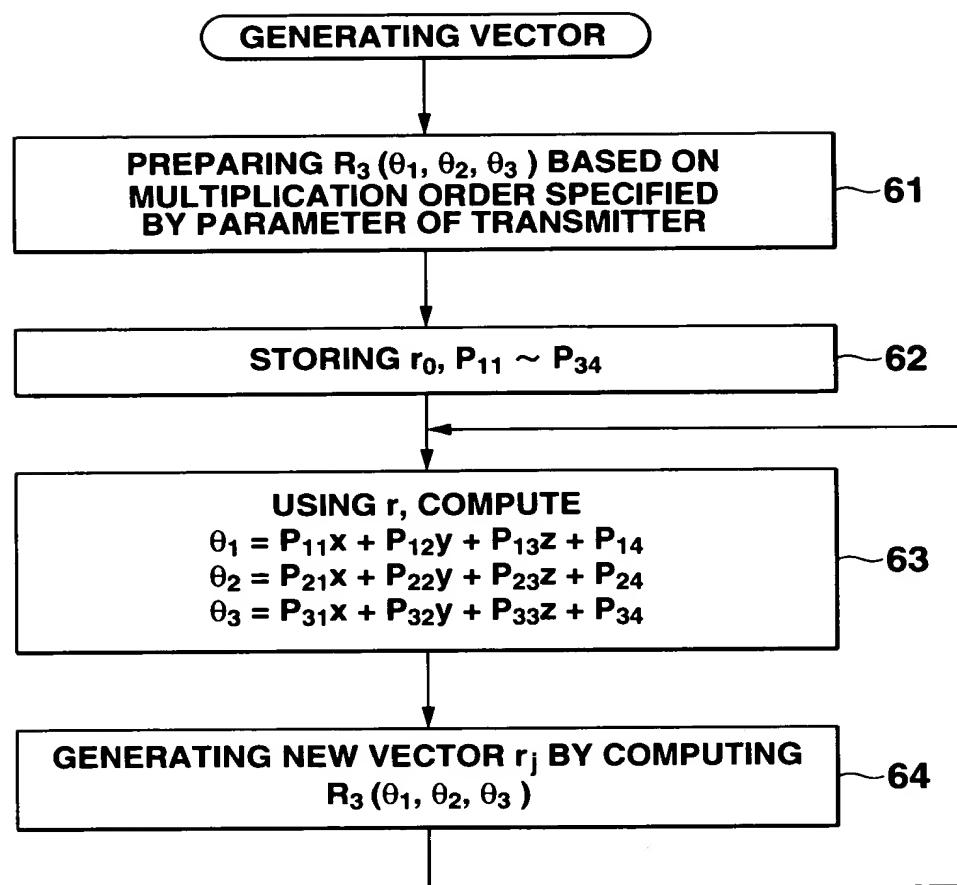


FIG.35

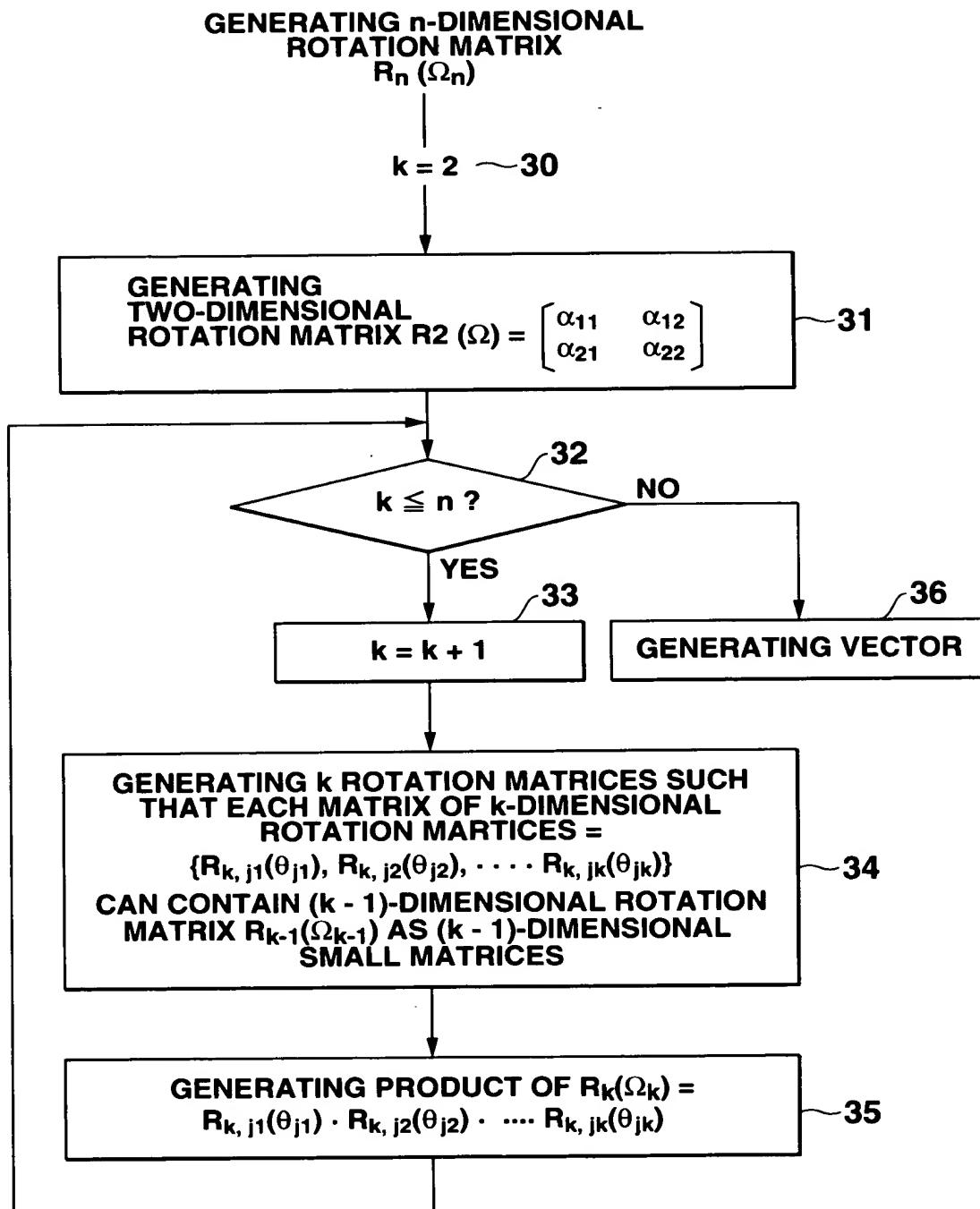


FIG.36

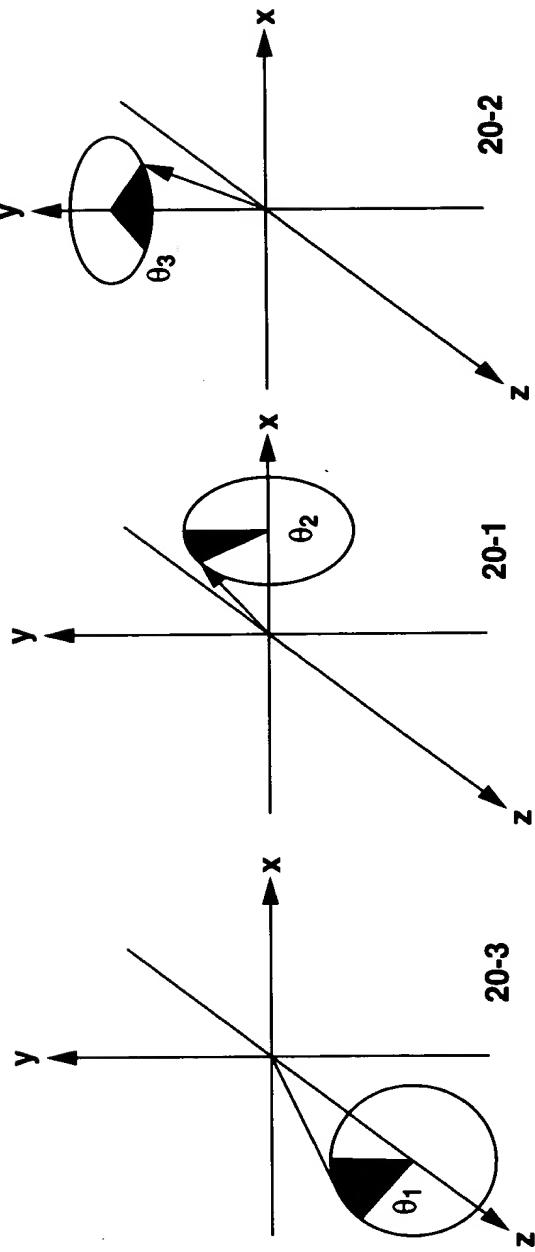


FIG.37A

FIG.37C

FIG.37B